

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
22 March 2001 (22.03.2001)

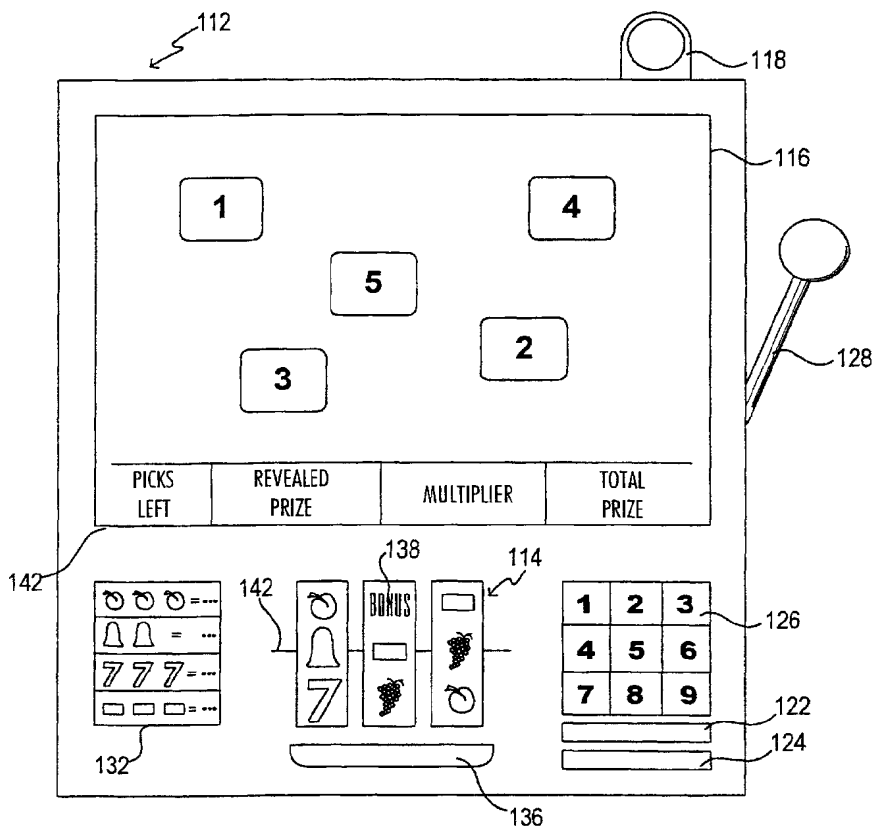
PCT

(10) International Publication Number  
**WO 01/19476 A1**

- (51) International Patent Classification<sup>7</sup>: A63F 13/00 (72) Inventor; and  
(75) Inventor/Applicant (for US only): GLAVICH, Paulina  
(21) International Application Number: PCT/US00/25061 [HR/US]; 2736 Caballo Drive, Reno, NV 89502 (US).  
(22) International Filing Date: 13 September 2000 (13.09.2000) (74) Agents: HANSRA, Tejpal, S. et al.; Sheridan Ross P.C.,  
Suite 1200, 1560 Broadway, Denver, CO 80202-5141 (US).  
(25) Filing Language: English (81) Designated States (national): AE, AL, AM, AT, AU, AZ,  
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,  
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
(26) Publication Language: English IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,  
(30) Priority Data: 60/153,746 13 September 1999 (13.09.1999) US  
09/564,493 4 May 2000 (04.05.2000) US UG, US, UZ, VN, YU, ZA, ZW.  
(71) Applicant (for all designated States except US): INTER-  
NATIONAL GAME TECHNOLOGY [US/US]; 9295  
Prototyp Drive, Reno, NV 89511 (US). (84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,

[Continued on next page]

(54) Title: GAMING BONUS APPARATUS AND METHOD WITH PLAYER INTERACTION



(57) Abstract: A gaming system provides a main game and a bonus feature with the bonus feature providing for user interaction.



IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *With international search report.*
- *Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.*

GAMING BONUS APPARATUS AND METHOD WITH  
PLAYER INTERACTION

Cross-reference is made to Application Serial No. \_\_\_\_\_ Attorney File  
5 No. 14491 entitled "Imaging Matching Game Method", filed on September 13, 1999 and  
incorporated by reference.

The present invention is directed to a gaming apparatus and method which  
includes a bonus feature and in particular a bonus feature that provides for player  
interaction such as by selecting among a plurality of selectable items.

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## BACKGROUND INFORMATION

A number of gaming methods and apparatus provide a bonus feature. As used  
herein a bonus feature is a feature which provides a player with a desired item (typically,  
but not necessarily, a monetary prize) after at least some play of the main game. In some  
15 situations, a bonus is provided in response to achieving a outcome in the main game  
(such as by achieving one or more bonus results in the main game, accumulating a  
threshold number of points or credits in the main game, and the like. Bonusing may be  
provided in any of a plurality of types of main games such as slot machine games,  
electronic poker, blackjack or other electronic card games, electronic keno, bingo, item  
20 picking games and a plurality of other game types as a main game.

Although bonusing can be attractive both to players (e.g., because of the added  
interest and entertainment value associated with bonusing) and to game operators (e.g.,  
because of the increased play or attractiveness associated with bonusing games), it is  
believed there is a potential for further development in bonusing, e.g., to further increase  
25 the entertainment value or interest associated with bonusing. For example, many types  
of bonusing occur substantially automatically, with substantially no opportunity for  
player interaction, such as bonusing which involves an award of a predetermined or  
randomly selected prize. Accordingly, it would be useful to provide a gaming apparatus  
and method having bonusing which provides for a degree of player interaction with the  
30 bonusing portion or feature.

Although it is believed interaction with a bonusing feature would be a useful  
component, when player interaction affects a type or amount of prize, there may be  
concerns that the resultant variability of the bonusing prize could undesirably diminish  
or undesirably increase the variability of overall (i.e., averaged over time) prize amounts

and thus of game operator hold amounts (thus potentially affecting game operator profits). Furthermore, there may be some regulatory environments in which there are effective bounds on bonusing prizes and/or holds. Accordingly, it would be useful to provide a gaming apparatus and method permitting player interaction with bonusing in which the interaction can affect the bonus prize amount, while achieving bounds or controls on bonusing prizes, at least averaged over time.

At least some main (non-bonus) game portions have provided for a multiplier effect such as by providing certain main game results which result in multiplication of a main game prize. Bonus prizes, however, are typically provided in a non-multiplicative fashion. Accordingly, it would be useful to provide a bonusing feature which has potential for a prize multiplier.

#### SUMMARY OF THE INVENTION

According to one embodiment of the invention, a play of a main game is followed by a bonus feature in which there is substantial player interaction. According to one aspect, a player is presented with a first number of selectable items, each associated with an "associated item" (which may be, e.g., a prize amount, a "demerit", additional pick opportunities, a multiplier, or combination of such items). The player may select a certain number of such items (with the number of "picks" allowed being less than or equal to, typically less than, the total number of selectable items). The player, at the time of picking an item, does not know which "associated items" are associated with the various selectable items. The player receives, as a bonus prize, the values associated with the selected items. If a selected item is associated with a multiplier, some or all of the bonus prize, such as all previously-selected items, are multiplied by the multiplier value. Preferably, as each item is selected by the player, the associated prize or other item (if any) is revealed. In one embodiment, after the player has exercised all his or her "picks," items associated with any remaining selectable items are uncovered or revealed (e.g., so that the player can see the prizes or other associated items that were missed).

In one aspect a gaming system provides a main game and a bonus feature with the bonus feature providing for user interaction. In one aspect, user interaction involves allowing a player to select at least some of a plurality of selectable items. When a

selectable item is selected, a prize, multiplier or other item associated with the selectable item is revealed and a total bonus prize is based on the prizes, multipliers or other items associated with the selectable items selected by the player.

## 5 BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a simplified front view of a gaming terminal in accordance with the embodiment of the present invention;

Fig. 2 is a flow chart depicting a gaming procedure according to an embodiment of the present invention;

10 Fig. 3A-3D are front views of display screens at successive stages of a bonusing procedure showing one example of bonusing according to an embodiment of the present invention; and

Fig. 4 is a block diagram of a gaming terminal according an embodiment of the present invention.

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## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention can be implemented in the context of a number of different apparatus. Fig. 1 depicts a slot machine-type gaming terminal 112 that can be used in the present invention. The gaming terminal depicted in Fig. 1 provides separate areas for the main game and the bonus feature, such as separate slot machine reels 114 and display screen 116. As will be understood by those of skill in the art, after understanding the present disclosure, the present invention can also be implemented in many other types of gaming devices such as a gaming device in which the main game and the bonusing feature are both displayed on the same area such as both being displayed on a single display screen. In the embodiment depicted in Fig. 1, a wager-receiving facility is provided such as by providing a coin input 118, currency input 122 a card reader 124, e.g., for reading a credit card, smart card, frequent player card and the like. It is also possible to provide a keyboard 126 which can be used in connection with inputting wagers such as inputting a password or code relating to preauthorized credit accounts and the like. A handle 128 can be used to initiate play of the main game although other

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components such as buttons, touchscreens, voice actuation and the like can also be used. Preferably, graphics 132 are provided, e.g., for decoration, attraction, instruction, explanation, display of pay tables and the like.

Fig. 4 depicts a block diagram of certain components of a gaming apparatus that can be used in the present invention. In the block diagram of Fig. 4, a microprocessor 412 coupled to a wager acceptor 414 which can be a coin, currency or card acceptor, or an input device such as a keyboard, or plurality of buttons, voice recognition device, mouse, joy stick, track ball, or other pointer device, touchscreen and the like. In the embodiment depicted in Fig. 4, a touchscreen 416 can provide both input and output including input and output associated with the main game, if desired, as well as input or output associated with the bonusing feature. Touchscreens may be associated with many types of displays including a liquid crystal display (LCD), a cathode ray tube (CRT) display, a mechanical display and the like. In the embodiment of Fig. 4, the microprocessor 412 is coupled to a memory 418 (often in the form of two or more different memory modules or devices) which can be used for storing a number of items including microcode or programming for the microprocessor 412, pay table information, information identifying or related to main game or bonusing prizes, selectable items, association between associated items and selectable items, static or moveable icons or other displays associated with selectable items and/or prizes or other associated items and the like. In the embodiment of Fig. 4, the microprocessor 412 is coupled to a prize output device 422 which can include e.g., a coin output or tray or similar coin output device 136, a card writer or encoder and/or a communication device, e.g. for crediting a remotely-located account of a player.

As depicted in Fig. 2, gaming can begin with the receipt of a wager 212 which provides for play of the main game 214. In general, the main game 214 is distinguishable from a bonusing feature because there must be at least some amount of play of the main game, before initiating of the bonusing feature, and/or because the main game is the game which is most prominently featured or displayed on the gaming terminal and/or because the main game is the game on which the player wagers.

As in the embodiment of Fig. 2, the bonusing feature is initiated upon the occurrence of a bonus trigger event 216. If a bonus trigger event does not occur a

procedure returns 218 to permit another wager and main game play if desired. In some embodiments, the bonus trigger 216 relates to outcomes or other aspects of the main game such as achieving certain main game results (e.g., achieving one or more bonus symbols 138 on a slot machine pay line 142, Fig. 1), play of a certain number of rounds of the main game, wagering of at least a threshold amount, accumulation of a threshold point, credit or prize amount in the main game and the like. In some embodiments, a bonus trigger 216 may occur in a fashion substantially unrelated to play of the main game such as in response to passage of a certain amount of time, or may be declared at randomly selected times.

The embodiment depicted in Fig. 2 involves a bonusing feature which permits a player to select up to a certain number (referred to herein as "Z") of items out of a plurality (referred to herein as "N") of selectable items. In some embodiments, the number of selectable items may be substantially constant or fixed for a given gaming terminal. In other embodiments, the value of N may change from time to time. For example, N may be selected based on the size of the wager for the last main game (although in some embodiments a player may be given an option to make an additional wager or side wager related to the bonusing feature, e.g., for the purpose of increasing the value of N). For example, a game could be configured such that N equals 4 if one coin was played, N equals 6 if two coins were played, and N equals 9 if 3 coins were played, and the like. In one embodiment of the invention, N may be determined at least partially in response to outcomes or other items in the main game such as in response to accumulated points or credits, the most recent main game outcome, and the like. In some embodiments, the value of N may be selected at least partially in response to past gaming conditions, so as to assist in establishing bonusing prize probabilities configured to achieve compliance with gaming regulations and/or to control or limit overall or averaged prizes, e.g. to assist in achieving a desired game operator hold or profit. In some embodiments, the value of N may be selected at least partially randomly, such as by randomly selecting a value of N from among a plurality of candidate values or among a range of values. In one embodiment, selectable items are presented as a rectangular array of X rows and Y columns and accordingly N is selected or calculated as a product of X and Y 224. In some embodiments, selection or calculation of N may involve a

combination of the above-described selection or calculation modes, such as randomly selecting N from among a first range of values in response to a 2-coin wager and randomly selecting a value of N from a second range (which includes higher potential values of N) in response to a three coin wager and the like.

5           The number of picks which the player is permitted (i.e., the value of Z) can be a substantially constant and unchanging value for a given gaming terminal or can be a value which is selected or calculated and which may change from time to time. The value of Z can be selected or calculated 226 using any of the factors or combination factors described above in connection with selection or calculation of N, such as in  
10       in response to outcome or other features of the main game, in response to amounts of wagers, to accommodate desired game operator holds or profits, to comply with gaming regulations, in a random fashion, such as randomly among a range or set of candidate Z values, or combinations thereof. Preferably, the value of Z is displayed to the user 228 such as by displaying on a display screen 142.

15           Some or all of the N player-selectable items are associated with "associated items". A number of items may be associated with a selectable item and accordingly, associated items can include various prizes (which can be monetary prizes, non-monetary prizes such as additional plays of the main game, or other non-monetary prizes) additional bonusing picks, increasers such as multiplication factors, as described below,  
20       demerit values, as described below, and/or combinations of two or more such items. An increaser differs from a prize in that the increaser increases or otherwise affects the value of other (typically previous) prizes. In some embodiments, increasers operate on or affect two or more prizes, such as by affecting all previous bonus prizes for the current bonus feature. A multiplier-type increaser is an increaser which multiplies the value of  
25       one or more previous prizes. For example, a x2 multiplier will double one or more prizes, an x3 multiplier will triple one or more prizes and the like. Multipliers or other increasers can be configured to affect all previous bonus feature prizes, all previous and subsequent bonus feature prizes, a certain number of bonus feature prizes (such as the two most recent prizes, the next two prizes and the like), all subsequent bonus feature  
30       prizes and the like. Increasers can be configured to provide an increase function other



than multiplication, such as squaring or cubing, or other increasing functions as will be clear to those of skill in the art after understanding the present disclosure.

As used herein, a demerit is a function which decreases a prize value. In one embodiment, a demerit is a negative value which is thus a value subtracted from the prize total, although other decreasing functions will be understood by those of skill in the art after understanding the present disclosure. It is possible to construct operable systems in which not all of the potential associated item categories are available. For example, operable devices can be configured in which there are no demerits associated with selectable items, or in which there are no additional picks associated with selectable items. In general, it is preferred to include at least some multipliers or other increasers.

It is not necessary, in order to achieve a operable system, to provide an associated item for all the selectable items. For example, there may be some selectable items which have no associated items (or, equivalently, which are associated with blank or zero-value associated items) such that, upon selecting such a selectable item, there is no affect upon the total prize. Accordingly, the number of associated items  $M$  should be less than or equal to  $N$ . The  $M$  items are selected or calculated 232 in any of a number of fashions. In some embodiments, the  $M$  associated items may be substantially constant or unchanging in a given gaming terminal. In other embodiments, the  $M$  associated items may be selected using factors similar to those described above in connection with selection of the value  $N$ , including selecting based on results or outcomes of the main game selecting based on the amount of wagers, selecting based on desired hold or profit of a game operator, selecting based on compliance with gaming regulations, selecting based on a random selection process (e.g., randomly selecting among the plurality of candidate associated items).

The values of  $Z$  and  $N$ , and the items which are associated with some or all of the  $N$  selectable items, all affect the amount of bonusing prizes, averaged over a period of time. Accordingly, although the selection of  $Z$ ,  $N$ , and the items associated with the selectable items were described above as being performed separately, it is preferred to make these selections with consideration of how the combination of these selections affects the amount of bonusing prizes averaged over a period of time. For example, if the associated items include a relatively large number of relatively high-value prizes, the

effect of this on the average bonusing prizes can be at least somewhat reduced by providing a relatively low ratio of Z to N (i.e., giving the player only a relatively small number of picks among a relatively large number of selectable items). Those of skill in the art will understand how to select N, Z and the associated items in a manner to achieve various affects which as affecting the bonusing prizes averaged over a period of time.

In at least one embodiment, the selectable items are presented to the user in the form of graphics or other logos or icons on a display screen. In some embodiments, the selectable items are always located in the same location on the display screen. In other embodiments, the locations may change such as by selecting N locations for displaying the N selectable regions 234 for each bonusing round. In one embodiment, the locations are selected such as by randomly selecting them from a plurality of candidate locations. In some embodiments, the selectable regions or locations are displayed so as to provide the impression of movement, such as by providing animated graphics or icons, and/or such that the various selectable regions move across the screen.

Preferably, the M associated items are associated with selectable items in a fashion so as to avoid predictability of such associations (e.g., based on previous bonusing rounds) and is preferably performed substantially randomly. For example, if each of the M associated items is assigned an identifier number (between 1 and M), the association can be achieved by storing (e.g., in a table, stored in memory), for at least some selectable items, a randomly selected one of the integers 1 through M. Those of skill in the art will understand how to store numbers and tables in memory and will also understand how to form other manners of association.

The player selects one of the selectable locations 238 (which has not been previously selected). For example, when the selectable locations are locations displayed on a touchscreen display screen, user may select a location by touching the current location of a selectable region. In another embodiment, each selectable location may be labeled with an identifier such as a number and the player may select a region by selecting a number key 126. Preferably, as each selectable item is selected, the prize or other associated item which is associated with such selectable region is revealed or displayed 242 (although it is also possible to provide embodiments in which the associated items are displayed all at once after all Z items have been selected 246). The

procedure loops 243 to allow the player to continue selecting items until all Z picks have been made 244. The items associated with the picked or selected items are implemented. For example, if an associated item includes a prize, the prize total of the bonusing is incremented by the associated prize amount. If the associated item includes one or more  
5 additional picks, the value Z is incremented the appropriate amount. If the associated item includes a multiplier, a multiplier value is applied to the appropriate previous and/or subsequent bonusing prizes. If the associated item includes a demerit, the prize amount is appropriately decreased.

Preferably, after the user has selected the Z selectable items, all items associated  
10 with all selected items are revealed or displayed 248. This will provide a player with an opportunity to see the prizes or other associated items which were not picked (if any), which is believed to add to the entertainment value of the bonusing feature and may also assist in reassuring the player as to the fairness of the game and the bonusing feature.

Figs. 3A through 3D show screens as they would appear at four subsequent stages  
15 during one example of a bonusing feature according to the present invention. In the example illustrated in Figs. 3A through 3D, the initial value of Z is 3 and the value of N is 5. Thus, as shown in Fig. 3A, the player initially is provided with 3 picks 312 and the display screen displays 5 selectable areas 314a through 314e. In the present example, it is assumed that the player initially selects the fifth area 314e. The apparatus responds by  
20 displaying the screen as shown in Fig. 3B in which the value associated with the fifth selectable area 314e is displayed or revealed and, in this case, is a prize value of \$2.00 316. Accordingly, the display shows a current revealed prize of \$2.00 318 and a total prize of \$2.00 322. Because one of the picks has now been used, the display shows that there are now two picks left 324. In the example illustrated, it is assumed the player next  
25 selects the fourth selectable item 314d. In this case, the associated item is a demerit value of -1. The fourth selectable area 314d is displayed in a manner to reveal or display this value 326. The number of picks now left is 1 328 and the total revealed prize now totals \$1.00 (332), which is equal to the \$2.00 prize associated with area 314e minus the negative 1 demerit associated with selectable 314d.

30 In the illustrated example, it is assumed the player next selects the second selectable area 314b which, in this example, has an associated item which is a multiplier

with a value of x5, which is then revealed or displayed 336. As shown in Fig. 3d, the player has no more picks left 338. The revealed prize is unchanged, i.e., remains at \$1.00 342. However, the revealed prize is increased by the multiplier 344 so that the total prize 346 is \$5.00.

5 In light of the above description, a number of advantages of the present invention can be seen. The present invention can assist in providing user interest and providing increased entertainment value to players by providing a fashion in which a bonus feature uses player interaction, preferably such that a bonus prize is not predetermined, at the initiation of a bonus process preferably being affected by player choices or actions such  
10 as by allowing a user to select among a plurality of selectable items. The present invention provides a fashion for a user to interact in a fashion so as to affect the amount of a bonus prize in a given round of the game, while providing for total bonus prizes, averaged over a period of time, to be controlled, limited or predictable. The present invention provides a bonusing feature which can include one or more multipliers for  
15 enhancing player interest and/or entertainment value.

A number of variations and modifications of the invention can be used. It is possible to use some features of the invention without using others. For example, it is possible to provide for a bonusing feature with user interaction as described without performing selection or calculation on the basis of guaranteeing a game operator hold or  
20 profit. Although procedures in accordance with the present invention have been described, it is possible to implement the present invention using procedures which have additional steps or fewer steps and/or in which steps are performed in an order different from that depicted. For example, the step of associating items with selectable items can be performed before the bonus trigger event occurs.

25 The present invention, in various embodiments, includes components, methods, processes, systems and/or apparatus substantially as depicted and described herein, including various embodiments, subcombinations, and subsets thereof. Those of skill in the art will understand how to make and use the present invention after understanding the present disclosure. The present invention, in various embodiments, includes providing  
30 devices and processes in the absence of items not depicted and/or described herein or in various embodiments hereof, including in the absence of such items as may have been

used in previous devices or processes, e.g. for improving performance, achieving ease and/or reducing cost of implementation. The present invention includes items which are novel, and terminology adapted from previous and/or analogous technologies, for convenience in describing novel items or processes, do not necessarily retain all aspects of conventional usage of such terminology.

The foregoing discussion of the invention has been presented for purposes of illustration and description. The foregoing is not intended to limit the invention to the form or forms disclosed herein. Although the description of the invention has included description of one or more embodiments and certain variations and modifications, other variations and modifications are within the scope of the invention, e.g. as may be within the skill and knowledge of those in the art, after understanding the present disclosure. It is intended to obtain rights which include alternative embodiments to the extent permitted, including alternate, interchangeable and/or equivalent structures, functions, ranges or steps to those claimed, whether or not such alternate, interchangeable and/or equivalent structures, functions, ranges or steps are disclosed herein, and without intending to publicly dedicate any patentable subject matter.

What is claimed is:

1. Apparatus for providing a bonus in a gaming system played by a player, comprising:

a gaming terminal having a wager receiver and input and output devices;  
5 electronic circuitry which

associates associated items with at least some of a plurality of user-selectable items, said associated items including at least a first prize and a first prize increaser;

10 displays at least some said selectable items, in response to a bonus trigger, in a main game of said gaming system;

receives, from said player, selections of up to a predetermined number of said selectable items;

credits said player with a bonus prize when an associated item associated with a selected item includes a prize; and

15 increases all current bonus prizes when an associated item associated with a selected item includes an increaser.

2. Apparatus for playing a game by a player, comprising:

a gaming terminal including a wager acceptor, and input and output devices;  
a microprocessor configured to:

20 control play of a main game in response to receipt of a wager;  
initiate a bonus procedure in response to occurrence, in said main game, of a bonus trigger event, wherein, during said bonus procedure, said microprocessor is configured to

25 display a plurality of player-selectable items, each associated with a prize or a multiplier;

display a number indicating the number of picks which the player can exercise;

30 display, in response to each picked player-selectable item, said prize or multiplier associated with said picked item, adding a prize amount to a prize total when a prize is associated with said

picked item and multiplying said prize total by a multiplier value when a multiplier is associated with said picked item;

display items associated with all said player-selectable items after said number of picks has been exercised by said player.

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3. A game-playing method comprising:

receiving a wager in a gaming terminal;

playing a main game portion at said gaming terminal;

initiating a bonus portion in response to a main game portion;

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associating each of a plurality of player-selectable items with an associated item, said associated item being at least one of a prize, a multiplier, a demerit or a combination thereof

displaying said plurality of player-selectable items;

15

receiving, from said player, input indicating up to a predetermined number of picks of said player-selectable items;

increasing a prize total by a prize value for each picked player-selectable item associated with an associated item which includes a prize; and

multiplying a prize total by a prize value for each picked player-selectable item associated with an associated item which includes a multiplier.

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4. A method, as claimed in claim 3, wherein said step of associating comprises randomly associating.

5. A method, as claimed in claim 3 further comprising selecting the number of player-selectable items.

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6. A method, as claimed in claim 5 wherein said step of selecting the number of player-selectable items is performed according to at least one of:

a random selection process within a range;

a wager-based selection process;

an average-hold selection process.

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7. A method, as claimed in claim 3 wherein said step of associating includes selecting said associated items according to at least one of:

a random selection process within a range;

a wager-based selection process;  
an average-hold selection process.

8. A method, as claimed in claim 3 further comprising selecting said predetermined number of picks.

5 9. A method, as claimed in claim 8 wherein said step of selecting said predetermined number of picks is performed according to at least one of:

a random selection process within a range;  
a wager-based selection process;  
an average-hold selection process.

10 10. A method, as claimed in claim 3, further comprising displaying said predetermined number of picks;

11. A method, as claimed in claim 3, further comprising randomly selecting locations for display of said player-selectable items.

12. A method, as claimed in claim 3, wherein said step of displaying said plurality of player-selectable items includes displaying at least one of said plurality of player-selectable items to provide the appearance of motion.

13. A method, as claimed in claim 3, further comprising:  
decreasing said prize total for each picked player-selectable item associated with an associated item which includes a demerit

20 14. Apparatus for game-playing comprising:  
a gaming terminal having means for receiving a wager and having input and output means for playing a main game portion;

means for initiating a bonus procedure;  
means for associating each of a plurality of displayable player-selectable items with an associated item, said associated item including at least one of a prize, a multiplier, a demerit or a combination thereof;

25 means for displaying said plurality of player-selectable items;  
means for receiving, from said player, input indicating up to a predetermined number of picks of said player-selectable items;

30 means for increasing a prize total by a prize value for each picked player-selectable item associated with an associated item which includes a prize; and



means for multiplying a prize total by a prize value for each picked player-selectable item associated with an associated item which includes a multiplier.

15. Apparatus, as claimed in claim 14, wherein said means for associating comprises means for randomly associating.

5 16. Apparatus, as claimed in claim 14 further comprising means for selecting the number of player-selectable items.

17. Apparatus, as claimed in claim 16 wherein said means for selecting the number of player-selectable items comprises means for selecting according to at least one of:

10 a random selection process within a range;  
a wager-based selection process;  
an average-hold selection process.

18. Apparatus, as claimed in claim 14 wherein said means for associating includes means for selecting said associated items according to at least one of:

15 a random selection process within a range;  
a wager-based selection process;  
an average-hold selection process.

19. Apparatus, as claimed in claim 14 further comprising means for selecting said predetermined number of picks.

20 20. Apparatus, as claimed in claim 19 wherein said means for selecting said predetermined number of picks includes means for selecting according to at least one of:

a random selection process within a range;  
a wager-based selection process;  
an average-hold selection process.

25 21. Apparatus, as claimed in claim 14, further comprising means for displaying said predetermined number of picks;

22. Apparatus, as claimed in claim 14, further comprising means for randomly selecting locations for display of said player-selectable items.

30 23. Apparatus, as claimed in claim 14, wherein said means for displaying said plurality of player-selectable items includes means for displaying at least one of said plurality of player-selectable items to provide the appearance of motion.

24. Apparatus, as claimed in claim 14, further comprising:  
means for decreasing said prize total for each picked player-selectable item  
associated with an associated item which includes a demerit.

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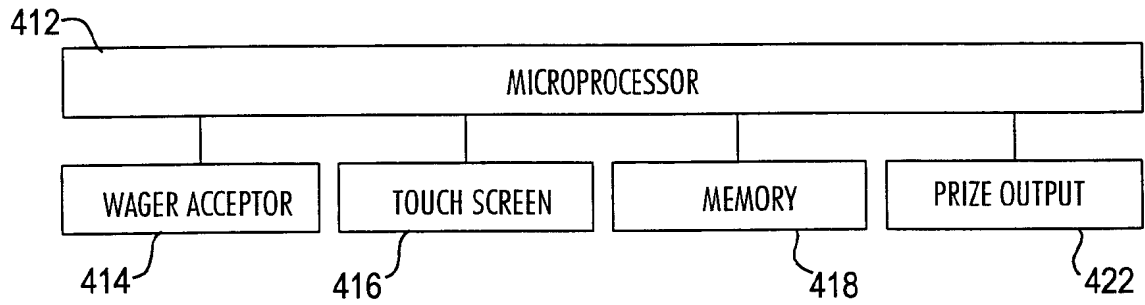


FIG. 4

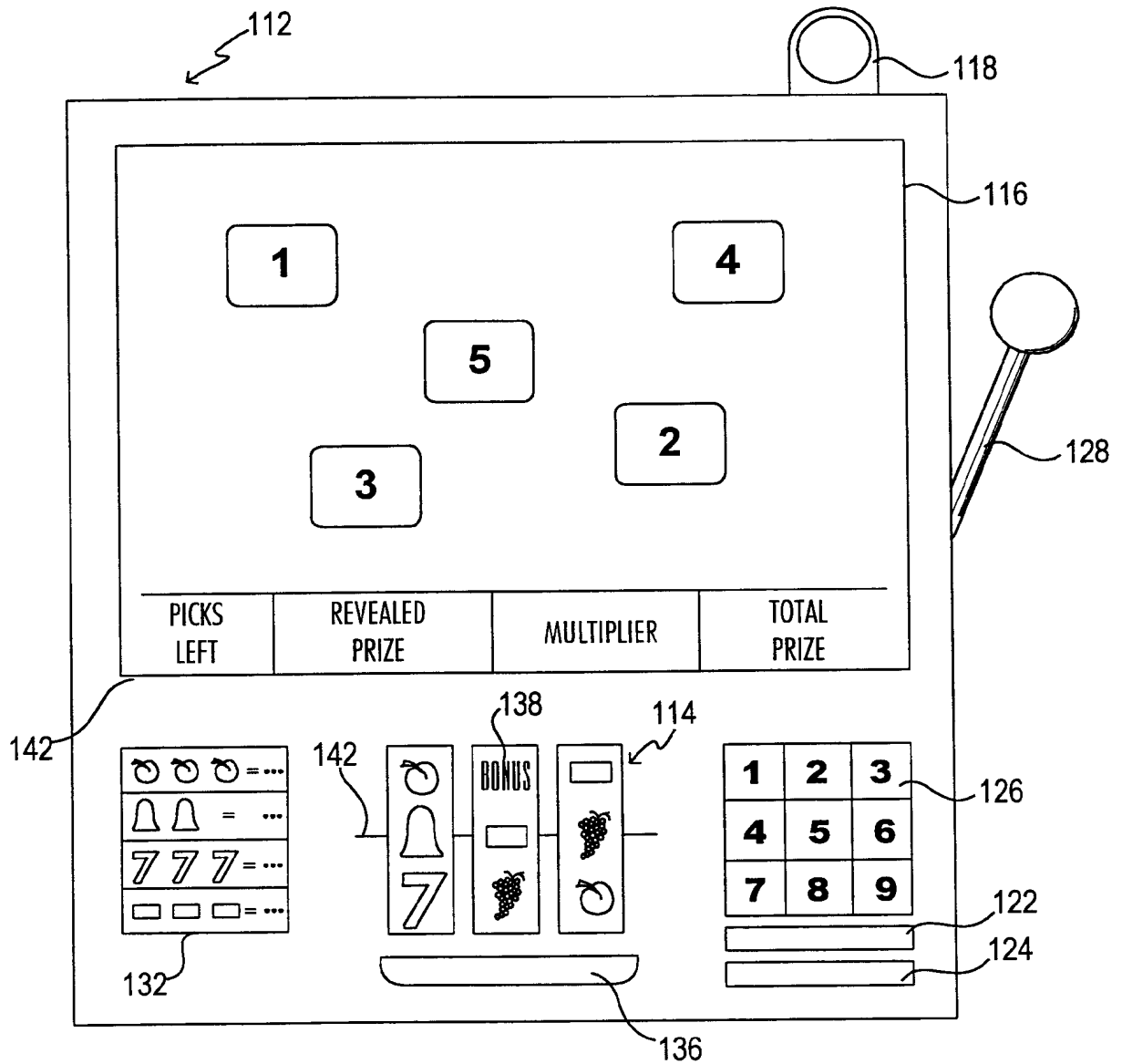


FIG. 1

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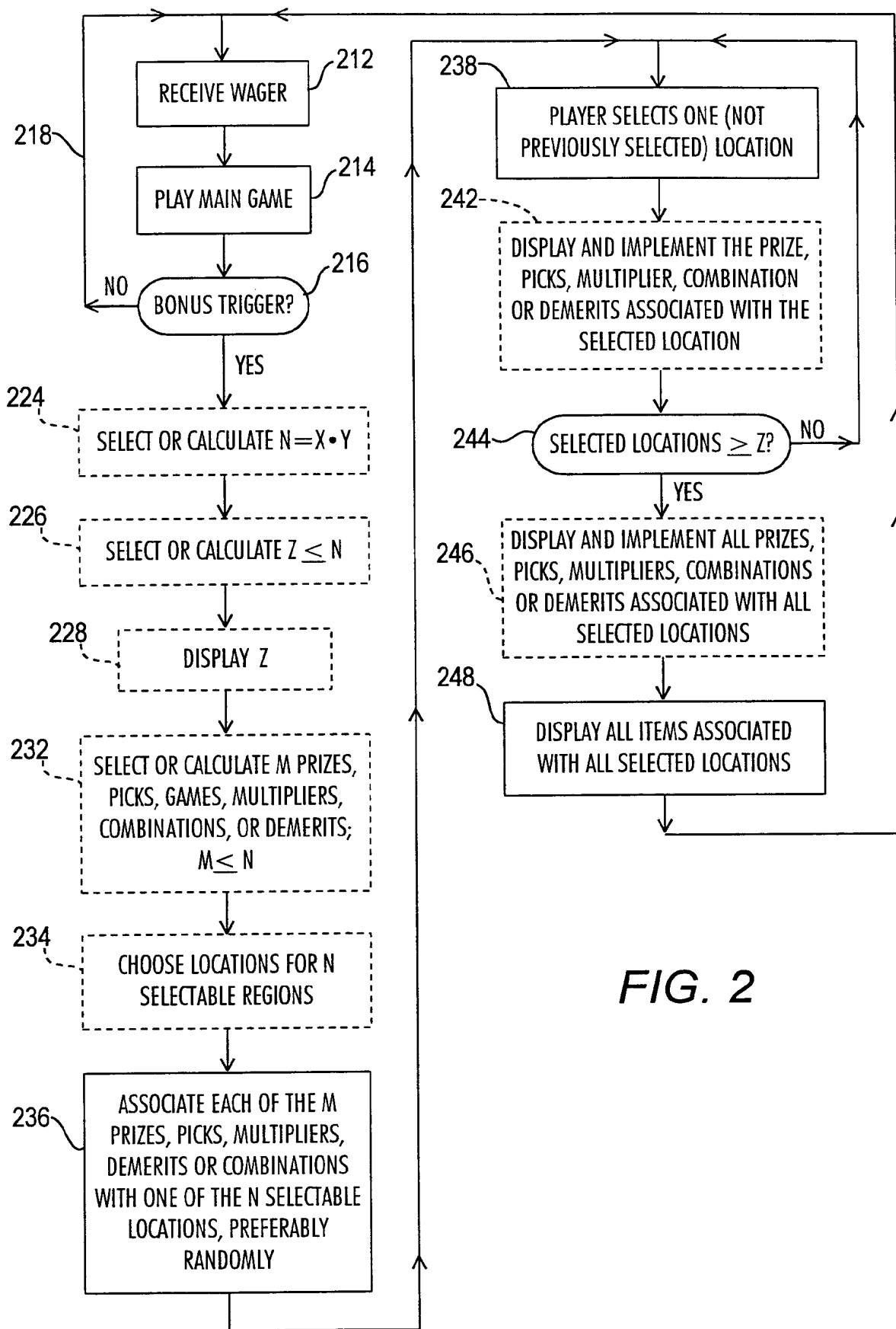


FIG. 2

FIG. 3A

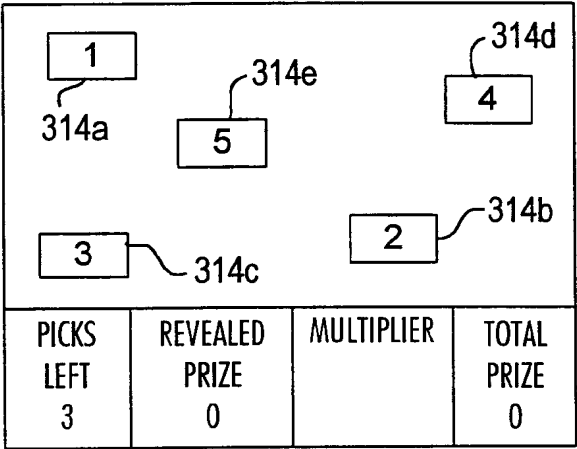


FIG. 3B

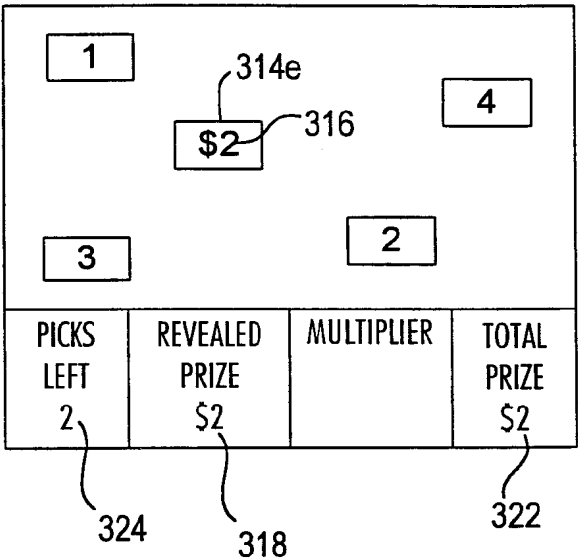


FIG. 3C

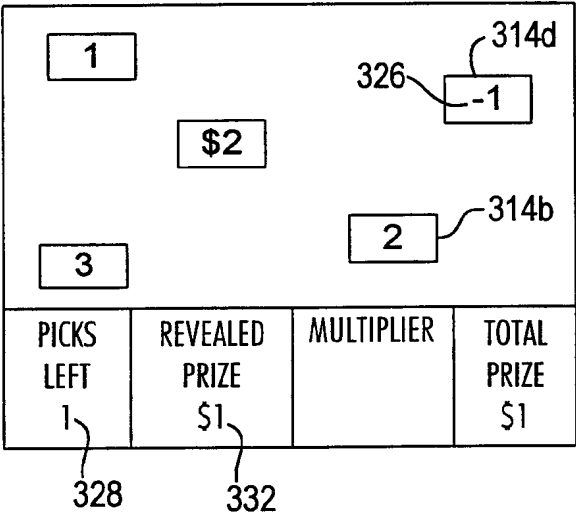
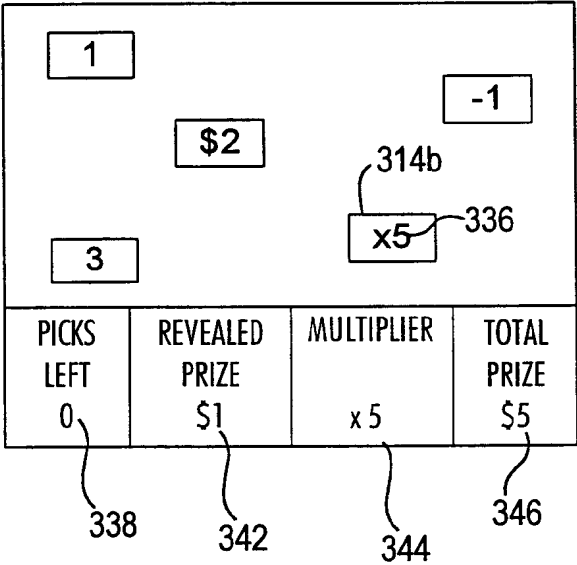


FIG. 3D



## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/25061

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A63F 13/00

US CL : 463/20

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 463/20, 19, 18, 17, 16, 13, 12, 25, 26, 27; 273/143R, 138.1, 138.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	US 6,089,976 A ( <i>SCHNEIDER</i> ) 18 July 2000, See whole document	1-12,14-23
Y,E	US 6,159,098 A ( <i>SLOMIANY et al.</i> ) 12 December 2000, See whole document.	1-12,14-23

☐

Further documents are listed in the continuation of Box C.

☐

See patent family annex.

\*

Special categories of cited documents:

"A"

document defining the general state of the art which is not considered to be of particular relevance

"E"

earlier document published on or after the international filing date

"L"

document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O"

document referring to an oral disclosure, use, exhibition or other means

"P"

document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;"

document member of the same patent family

Date of the actual completion of the international search

29 DECEMBER 2000

Date of mailing of the international search report

22 JAN 2001

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Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

MICHAEL O'NEILL

Telephone No. (703) 308-1148

*Sheila Venev*  
Paralegal Specialist  
Technology Center 3700